

AMENDMENTS TO THE CLAIMS

Claims 1-12 are currently pending in the application.

Please cancel claims 1-12 as shown below without prejudice or disclaimer to the subject matter of claims 1-12.

Please add new claims 13-31 as shown below.

This listing of claims 13-31 will replace all prior versions, and listings, of claims in the application:

1.-12. (Cancelled)

31 13. (New) A luminaire for illuminating an object, said luminaire comprising:

a first chamber for accommodating at least one tubular lamp; and
a second chamber defined by a light emission window and a curtain,

wherein, when the at least one tubular lamp is located within said first chamber, any light emitted by the at least one tubular lamp passes through said curtain into said second chamber with a first homogenous light distribution, and

wherein any light passing into said second chamber passes through said light emitting window with a second homogenous light distribution.

14. (New) The luminaire of claim 13,

wherein, when the at least one tubular lamp is located within said first chamber, a first portion of said curtain is directly opposite a first tubular lamp of the at least one lamp and a second portion is diagonal from the first tubular lamp; and

wherein a first light transmittance of said first portion of said curtain is less than a second light transmittance of said second portion of said curtain.

15. (New) The luminaire of claim 14,
wherein, a first layer thickness of said first portion of said curtain is greater
than a second layer thickness of said second portion of said curtain to thereby
establish the first light transmittance of said first portion of said curtain as being less
than the second light transmittance of said second portion of said curtain.

16. (New) The luminaire of claim 13,
wherein said second chamber is further defined by a side wall including a
light-transmitting material.

17. (New) The luminaire of claim 13,
wherein said curtain includes a calcium halophosphate material.

18. (New) The luminaire of claim 13,
wherein said curtain includes a calcium pyrophosphate material.

19. (New) The luminaire of claim 13,
wherein said curtain (21) includes a fluoro-copolymer serving as a binder.

20. (New) A luminaire for illuminating an object, said luminaire
comprising:
a first chamber for accommodating at least one tubular lamp;
a second chamber defined by a light emission window and a carrier wall; and
a curtain disposed within said second chamber,
wherein, when the at least one tubular lamp is located within said first
chamber, any light emitted by the at least one tubular lamp passes through said carrier
wall into said second chamber with a first homogenous light distribution, and
wherein any light passing into said second chamber passes through
said light emitting window with a second homogenous light distribution.

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21. (New) The luminaire of claim 22,
wherein a first portion of said curtain is spaced from said carrier wall and a
second portion of said curtain is affixed to said carrier wall; and
wherein a first light transmittance of said first portion of said curtain is less
than a second light transmittance of said second portion of said curtain.

22. (New) The luminaire of claim 20,
wherein, a first layer thickness of said first portion of said curtain is greater
than a second layer thickness of said second portion of said curtain to thereby
establish the first light transmittance of said first portion of said curtain as being less
than the second light transmittance of said second portion of said curtain

23. (New) The luminaire of claim 20,
wherein said second chamber is further defined by a side wall including a
light-transmitting material.

24. (New) The luminaire of claim 20,
wherein said curtain includes a calcium halophosphate material.

25. (New) The luminaire of claim 20,
wherein said curtain includes a calcium pyrophosphate material.

26. (New) The luminaire of claim 20,
wherein said curtain (21) includes a fluoro-copolymer serving as a binder.

27. (New) A lighting system for illuminating an object, said lighting system comprising:

a first luminaire including a first homogeneous light distribution chamber and a second homogeneous light distribution chamber both defined by a first side wall, said second homogeneous light distribution chamber further defined by a first light emission window;

a second luminaire including a third homogeneous light distribution chamber and a fourth homogeneous light distribution chamber both defined by a second side wall, said fourth homogeneous light distribution chamber further defined by a second light emission window;

wherein, a first edge of said first light emission window lies against a second edge of said second light emission window; and

wherein said first side wall and said second side wall both include a light-transmitting material.

28. (New) The lighting system of claim 27,
wherein said first side wall abuts said second side wall.

29. (New) The lighting system of claim 27,
wherein said first side wall and said second side wall are integrated to form one side wall.

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30. (New) The lighting system of claim 27,
wherein said first luminaire includes a curtain disposed within said second
homogeneous light distribution chamber;
wherein, when at least one tubular lamp is located within said first
homogeneous light distribution chamber, any light emitted by the at least one tubular
lamp passes through said curtain into said second homogeneous light distribution
chamber with a first homogenous light distribution, and
wherein any light passing into said second homogeneous light distribution
chamber passes through said first light emitting window with a second homogenous
light distribution.

31. (New) The lighting system of claim 27,
wherein said a second homogenous light distribution chamber is further
defined by a carrier wall;
wherein, when the at least one tubular lamp is located within said first
homogenous light distribution chamber, any light emitted by the at least one tubular
lamp passes through said carrier wall into said second homogenous light distribution
chamber with a first homogenous light distribution, and
wherein any light passing into said second homogenous light distribution
chamber passes through said first light emitting window with a second homogenous
light distribution.

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